

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service (Cont'd)

6.2.4 Feature Group D (FGD) (Cont'd)

(B) Optional Features (Cont'd)

(4) WATS Access Line Service Termination Optional Features

(a) E&M Supervisory Signaling

(b) Answer Supervision

(C) Transmission Specifications

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.4 Feature Group D (FGD) (Cont'd)

## (C) Transmission Specifications (Cont'd)

- When routed to an access or TOPS tandem only Type A is provided.
- Type A is provided on the transmission path from the access or TOPS tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2, 6, 7\* and 9.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises, multiplexing node or virtual collocation arrangement and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer's premises, multiplexing node or virtual collocation arrangement and the end office when directly routed to the end office.

## (D) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.6 and 6.1.8 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing, and Nonscheduled Testing, are available for FGD as set forth in 13.3.5 following.

(S)(x)

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(x) Issued on not less than 1 day's notice under authority of Special Permission No. 99-56 to include material filed by the NYNEX Telephone Companies under Transmittal No. 546 and which became effective in the NYNEX Telephone Companies Tariff F.C.C. No. 1 on April 16, 1999.

(TR 1129)

Issued: April 27, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.5 Circuit Switched Line (CSL) BSA(A) Description

- (1) CSL BSA is provided in connection with Telephone Company electronic and electromechanical end offices. At the option of the customer, CSL BSA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling.
- (2) CSL BSA provides a line side termination at the first point of switching. The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.
- (3) The Telephone Company shall select the first point of switching where Telephone Company facilities and measurement capabilities exist, within the selected LATA, at which the line side termination is to be provided. Where the customer requests a different first point of switching within the selected LATA, the Telephone Company will accommodate such a request if Telephone Company facilities and measurement capabilities are available.
- (4) A seven digit local telephone number assigned by the Telephone Company is provided for access to CSL BSA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Contld)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.5 Circuit Switched Line (CSL) BSA (Cont'd)(A) Description (Cont'd)

## (4) (Cont'd)

If the customer requests a specific seven digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, and subject to the availability of Telephone Company facilities and measurement capabilities, comply with that request, the requested number will be assigned to the customer.

- (5) CSL BSA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction CSL BSA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When CSL BSA switching is provided in a hunt group or uniform call distribution arrangement, all CSL BSA switching will be arranged for the same type of address signaling.

- (6) No address signaling is provided by the Telephone Company when CSL BSA switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.5 Circuit Switched Line (CSL) BSA (Cont'd)(A) Description (Cont'd)

- (7) CSL BSA switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits). Charges for CSL BSA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed on a separate account for (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls and, (2) calls from a CSL BSA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. For CSL BSA calls to Directory Assistance (411 and 555-1212, whichever is available), Switched Access Service usage rates will not apply. Instead, CSL BSA calls to this service are subject to the Directory Assistance and Directory Access Service per call rates as set forth in 31.9 following.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.5 Circuit Switched Line (CSL) BSA (Cont'd)(A) Description (Cont'd)

- (8) When a CSL BSA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.
- (9) When a WAL Service is provided in conjunction with a CSL BSA Switched Access Service, the customer will be provided with Routing of IntraLATA Calls to the Telephone Company for Use with WATS Access Line Service option.

(B) Basic Service Elements (BSEs) and Optional Features(1) Common Switching BSEs

- (a) Hunt Group Arrangement
- (b) Uniform Call Distribution Arrangement
- (c) Queuing with Uniform Call Distribution Arrangement
- (d) Announcements with Uniform Call Distribution Arrangement
- (e) Hunt Group Arrangement for Use with WATS Access Line Service
- (f) Uniform Call Distribution Arrangement for Use with WATS Access Line Service
- (g) Night Transfer
- (h) Simplified Message Desk Interface (SMDI)
- (i) Hot Line
- (j) Warm Line
- (k) Three Way Calling

(2) Common Switching Optional Features

- (a) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement
- (b) Nonhunting Number for Use with Hunt Group Arrangement for Use with WATS Access Line Service

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.5 Circuit Switched Line (CSL) BSA (Cont'd)(B) Basic Service Elements (BSEs) and Optional Features (Cont'd)(2) Common Switching Optional Features (Cont'd)

(c) Call Denial

(d) Service Code Denial

(3) Transport Termination Optional Features

(a) Two-way operation with dial pulse address signaling and loop start supervisory signaling

(b) Two-way operation with dial pulse address signaling and ground start supervisory signaling

(c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling

(d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling

(e) Termination operation with dial pulse address signaling and loop start supervisory signaling

(f) Terminating operation with dial pulse address signaling and ground start supervisory signaling

(g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling

(h) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling

(i) Originating operation with loop start supervisory signaling

(j) Originating operation with ground start supervisory signaling

(4) Local Transport Optional Features

(a) Supervisory Signaling (as set forth in 6.1.3(A)(2)(a) preceding)

(b) Customer Specified Entry Switch Receive Level

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.5 Circuit Switched Line (CSL) BSA (Cont'd)(B) Basic Service Elements (BSEs) and Optional Features (Cont'd)

- (5) Certain other features which may be available in connection with CSL BSA are provided under the Telephone Company's local and/or general exchange service tariffs. These are:

- Custom Calling Services (except for Three Way Calling)
- Terminating Number Screening\*
- IntraLATA extensions

(C) Transmission Specifications

CSL BSA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2, 6, 7\* and 9. Type DB Data Transmission Parameters are provided with CSL BSA to the first point of switching.

(D) Testing Capabilities

CSL BSA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.6 preceding which are included with the installation of service, additional Cooperative Acceptance Testing and Nonscheduled Testing are available for CSL BSA as set forth in 13.3.5 following.

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.6 Circuit Switched Trunk (CST) BSA

Circuit Switched Trunk BSA is provided in four switched access arrangements. These arrangements are differentiated by their technical characteristics, e.g., the manner in which an end user accesses them in originating calls. The four arrangements are offered as CST BSA - Option 1, CST BSA - Option 2, CST BSA - Option 3 and CST BSA - Option 4. The CST BSA options are provided as set forth in 6.2.7, 6.2.8, 6.2.9 and 6.2.10 following.

6.2.7 Circuit Switched Trunk (CST) BSA - Option 1(A) Description

- (1) CST BSA - Option 1, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, CST BSA - Option 1 switching is provided at Telephone Company electronic and electromechanical end office switches.
- (2) CST BSA - Option 1 is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.7 Circuit Switched Trunk (CST) BSA - Option 1 (Cont'd)(A) Description (Cont'd)

- (3) CST BSA - Option 1 switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for CST BSA - Option 1 switching provided with rotary dial station signaling arrangements as set forth in 6.3 following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) The access code for non-900 Access Service CST BSA - Option 1 switching is a uniform access code. The form of the uniform access code is 950-XXXX for carriers. These uniform access codes will be the assigned access numbers of all non-900 Access Service CST BSA - Option 1 Switched Access Service provided to the customer by the Telephone Company. No access code is required for CST BSA - Option 1 switching used to provide 900 Access Service. The telephone number dialed by the customer's end user is in the form 1+900+NXX-XXXX.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.7 Circuit Switched Trunk (CST) BSA - Option 1 (Cont'd)(A) Description (Cont'd)

- (5) CST BSA - Option 1 switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. Additionally, non-access charges will also be billed for calls from a CST BSA - Option 1 trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when CST BSA - Option 1 switching is combined with Directory Assistance switching. The combination of CST BSA - Option 1 Switched Access Service with DA Service is provided as set forth in 9. following. CST BSA - Option 1 may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C, D or CST BSA - Option 1, 2 or 3.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.7 Circuit Switched Trunk (CST) BSA - Option 1 (Cont'd)(A) Description (Cont'd)

- (6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where CST BSA Option 1 switching is provided. When required by technical limitations or network considerations, a separate trunk group will be established for each type of CST BSA - Option 1 switching arrangement provided. Different types of CST BSA - Option 1 or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (7) When all CST BSA - Option 1 switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.
- (8) When a WAL Service is provided in conjunction with a CST BSA - Option 1 Switched Access Service, the customer will be provided with the Routing of IntraLATA Calls to the Telephone Company for Use with WATS Access Line Service option.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.7 Circuit Switched Trunk (CST) BSA - Option 1 (Cont'd)(B) Basic Service Elements (BSEs) and Optional Features(1) Common Switching BSEs

- (a) Alternate Routing - Multiple Customer Premises Routing
- (b) Trunk Group Make Busy

(2) Common Switching Optional Features

- (a) Up to 7 Digit Outpulsing of Access Digits to Customer
- (b) Alternate Traffic Routing - End Office Alternate Routing
- (c) Hunt Group Arrangement for Use with WATS Access Line Service
- (d) Uniform Call Distribution Arrangement for Use with WATS Access Line Service
- (e) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service
- (f) Multiple Trunk Routing

(3) Transport Termination Optional Features

- (a) Rotary Dial Station Signaling

(4) Local Transport Optional Features

- (a) Customer Specification of Local Transport Termination
- (b) Supervisory Signaling (as set forth in 6.1.3(A)(2)(a) preceding)
- (c) Customer Specified Entry Switch Receive Level

(5) WATS Access Line Service Termination Optional Features

- (a) E&M Supervisory Signaling
- (b) Answer Supervision
- (6) Another feature, Terminating Number Screening\*, which may be available, in connection with CST BSA - Option 1 is provided under the Telephone Company's local and/or general exchange service tariffs.

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.7 Circuit Switched Trunk (CST) BSA - Option 1 (Cont'd)

## (C) Transmission Specifications

CST BSA - Option 1 is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2, 6, 7\* and 9. Type DB Data Transmission Parameters are provided with CST BSA - Option 1 to the first point of switching.

## (D) Testing Capabilities

CST BSA - Option 1 is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.6 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as set forth in 13.3.5 following.

(S)(x)

\* New England Telephone only

(x) Issued on not less than 1 day's notice under authority of Special Permission No. 99-56 to include material filed by the NYNEX Telephone Companies under Transmittal No. 546 and which became effective in the NYNEX Telephone Companies Tariff F.C.C. No. 1 on April 16, 1999.

(TR 1129)

Issued: April 27, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.8 Circuit Switched Trunk (CST) BSA - Option 2(A) Description

- (1) CST BSA - Option 2 is provided at all Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches. CST BSA - Option 2 switching is provided to the customer (i.e., providers of MTS and WATS) at an end office switch unless CST BSA - Option 3 end office switching is provided in the same office. When CST BSA - Option 3 switching is available, CST BSA - Option 2 switching will not be provided.
- (2) CST BSA - Option 2 is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, delay dial start-pulsing signals will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signals are provided.
- (3) CST BSA - Option 2 is provided with multifrequency address signaling except in certain electromechanical end office switches where multifrequency signaling is not available. In such switches, the address signaling will be dial pulse, revertive pulse, immediate dial pulse or panel call indicator signaling, whichever is available. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises or multiplexing node where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.8 Circuit Switched Trunk (CST) BSA - Option 2 (Cont'd)(A) Description (Cont'd)

- (4) No access code is required for CST BSA - Option 2 switching. The telephone number dialed by the customer's end user shall be a seven to eleven digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1+NXX-XXXX, NPA+NXX-XXXX, 0 or 1+NPA+NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01+CC+NN or 011+CC+NN.
- (5) CST BSA - Option 2 switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information provider, and other customers' services (by dialing the appropriate codes) when the services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by offices subtending the access tandem may be accessed. Additionally, non-access charges will also be billed for calls from a CST BSA - Option 2 trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 and 555-1212) when CST BSA - Option 2 switching is combined with Directory Assistance switching. The combination of CST BSA - Option 2 Switched Access Service with DA Service is provided as set forth in 9. following. CST BSA - Option 2 may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C, D or CST BSA - Option 1, 2 or 3.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.8 Circuit Switched Trunk (CST) BSA - Option 2 (Cont'd)(A) Description (Cont'd)

- (6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where CST BSA - Option 2 switching is provided. When required by technical limitations, a separate trunk group will be established for each type of CST BSA - Option 2 switching arrangement provided. Different types of CST BSA - Option 2 or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(B) Basic Service Elements (BSEs) and Optional Features(1) Common Switching BSEs

- (a) Alternate Routing - Multiple Customer Premises Routing

(2) Common Switching Optional Features

- (a) Service Class Routing  
(b) Dial Pulse Address Signaling  
(c) Revertive Pulse Address Signaling  
(d) Delay Dial Start-Pulse Signaling  
(e) Immediate Dial Pulse Address Signaling  
(f) Panel Call Indicator Address Signaling  
(g) Alternate Traffic Routing - End Office Alternate Routing  
(h) End Office End User Line Service Screening for Use with WATS Access Line Service  
(i) Hunt Group Arrangement for Use with WATS Access Line Service  
(j) Uniform Call Distribution Arrangement for Use with WATS Access Line Service  
(k) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service  
(l) Band Advance Arrangement for Use with WATS Access Line Service  
(m) Multiple Trunk Routing

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.8 Circuit Switched Trunk (CST) BSA - Option 2 (Cont'd)(B) Basic Service Elements (BSEs) and Optional Features (Cont'd)(3) Transport Termination Optional Features

- (a) Operator Trunks - i.e., Coin, Non-Coin and Combined Coin and Non-Coin. (Non-Coin Trunks are provided at Telephone Company electronic and electromechanical end offices. Coin and Combined Coin and Non-Coin are provided only at Telephone Company electronic end offices and other Telephone Company end offices where equipment is available.)

- (b) Operator Trunk-Full Feature

(4) Local Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.3(A)(2)(a) preceding)

(5) WATS Access Line Service Termination Optional Features

- (a) E&M Supervisory Signaling
- (b) Answer Supervision

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.8 Circuit Switched Trunk (CST) BSA - Option 2 (Cont'd)(C) Transmission Specifications

CST BSA - Option 2 is provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or Type C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2, 6, 7\* and 9 whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with CST BSA - Option 2 for the transmission path between the customer's premises or multiplexing node and the end office when directly routed to the end office, and Type DB Data Transmission Parameters are provided for the transmission path between the customer's premises or multiplexing node and the access tandem and between the access tandem and the end office when routed via an access tandem.

\* New England Telephone only

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.8 Circuit Switched Trunk (CST) BSA - Option 2 (Cont'd)

## (D) Testing Capabilities

CST BSA - Option 2 is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.6 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing or Manual Scheduled Testing, and Nonscheduled Testing are available as set forth in 13.3.5 following for CST BSA - Option 2.

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6.2.9 Circuit Switched Trunk (CST) BSA - Option 3

## (A) Description

- (1) CST BSA - Option 3 is provided at Telephone Company designated end office switches whether routed directly or via Telephone Company designated access tandem switches.

For CST BSA - Option 3 with the SS7 signaling option, the CCSA signaling connection is provided to Telephone Company designated STPs.

- (2) CST BSA - Option 3 is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment may be provided with wink start start-pulsing signals and answer and disconnect supervisory signaling, or without signaling when the SS7 signaling option is specified.

(x) Issued on not less than 1 day's notice under authority of Special Permission No. 99-56 to include material filed by the NYNEX Telephone Companies under Transmittal No. 546 and which became effective in the NYNEX Telephone Companies Tariff F.C.C. No. 1 on April 16, 1999.

(TR 1129)

Issued: April 27, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(A) Description (Cont'd)

- (3) CST BSA - Option 3 switching may be provided, at the customer's option, with multifrequency address signaling or common channel signaling.

With multifrequency address signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises or multiplexing node where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

With common channel signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's designated premises via a Common Channel Signaling Access (CCSA) circuit. The SS7 signaling option requires the customer to order CCSA links as described in 6.3.1(A)(2)(e) preceding.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(A) Description (Cont'd)

- (4) CST BSA - Option 3 switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed.

Additionally, non-access charges will also be billed for calls from a CST BSA - Option 3 trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 and 555-1212) when CST BSA - Option 3 switching is combined with Directory Assistance switching. The combination of CST BSA - Option 3 Switched Access Service with DA Service is provided as set forth in 9. following. CST BSA - Option 3 may not be switched, in the terminating direction, to Switched Access Feature Groups B, C, D or CST BSA - Option 1, 2 or 3.

- (5) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access or TOPS tandem switches where CST BSA - Option 3 switching is provided and where technically feasible. When required by technical limitations, a separate trunk group will be established for each type of CST BSA - Option 3 switching arrangement provided. Different types of CST BSA - Option 3 or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(A) Description (Cont'd)

- (6) The access code for CST BSA - Option 3 switching is a uniform access code of the form 101XXXX. These uniform access codes will be the assigned access numbers of all CST BSA - Option 3 access provided to the customer by the Telephone Company. No access code is required for calls which originate from a WATS Access Line (WAL) Service. No access code is required for calls to a customer over CST BSA - Option 3 Switched Access Service if the end user's telephone exchange service or the customer's Feature Group A or CSL BSA Switched Access Service is arranged for presubscription to that customer, as set forth in 13. following. Where Minimum Divergence Access Service is provided, the 101XXXX access code is not available.

When CST BSA - Option 3 is provided with Prepaid Calling Service Access, calls will be originated using the Telephone Company's Prepaid Calling Service 800 number and the customer's access code which will be of the form XXXX. The customer's access code will be requested from the calling end user after they have dialed the Prepaid Calling Service 800 number the first time the Prepaid Calling Service card is used for an interLATA, interstate or international call.

Where no access code is required, or available, the number dialed by the end user shall be a seven to eleven digit number for calls in the North American Numbering Plan (NANP). Where International Direct Distance Dialing (IDDD) is available for calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the end user is NXX-XXXX, 0 or 1+NXX-XXXX, NPA+NXX-XXXX, 0 or 1+NPA+NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01+CC+NN or 011+CC+NN. Calls originating from a WAL Service by the end user's dialing 800+NXX-XXXX, 1+800+NXX-XXXX, 900+NXX-XXXX or 1+900+NXX-XXXX will be routed to the Switched Access Service of the 800 or 900 service provider. Calls originating from a WAL Service by the end user's dialing unassigned NXXs, local operator assistance (0-), service codes (211, 611 and 911), directory assistance (411), 500+NXX-XXXX, 1+500+NXX-XXXX, or 101XXXX access codes will not be completed. All other calls originating from a WAL Service (excluding intra-Connecticut calls as prohibited by State Law, Public Act 87-415) will be routed to the particular customer for use with whose CST BSA - Option 3 Switched Access Service the WAL Service is ordered.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(A) Description (Cont'd)

## (6) (Cont'd)

These dialing provisions apply for WAL Service not equipped with the Routing of IntraLATA Calls to the Telephone Company for Use with WATS Access Line Service option.

When the 101XXXX access code is used, CST BSA - Option 3 switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the customer's premises.

When CST BSA - Option 3 is provided with SWITCHWAY Service Access Capability, the dialing pattern will be modified as follows. In the originating direction, when no access code is required, end users at suitably equipped end user premises can activate the capability in the end office by dialing #56+1+10 digits. When the 101XXXX access code is used, the end user dials #56+101XXXX+10 digits.

## (7) Reserved for Future Use

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042



ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service (Cont'd)

6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)

(A) Description (Cont'd)

- (8) CST BSA - Option 3 switching will be arranged to accept calls from telephone exchange service, Feature Group A or CSL BSA Switched Access Service locations without the need for dialing the 101XXXX uniform access code. Each telephone exchange service line, Feature Group A or CSL BSA Switched Access Service may be marked with a presubscription code to identify which 101XXXX code its calls will be directed to for interLATA service. Presubscription codes are applied as set for in section 13. following.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(A) Description (Cont'd)

- (9) When a customer has had CST BSA - Option 1 access in an end office and subsequently replaces the CST BSA - Option 1 access with CST BSA - Option 3 access, at the customers request and where facilities permit, the Telephone Company will, for a period of 90 days, direct calls dialed by the customer's end users using the customer's previous CST BSA - Option 1 access code to the customer's CST BSA - Option 3 access service. The customer must be prepared to handle normally dialed CST BSA - Option 3 calls as well as calls dialed with the CST BSA - Option 1 access code which require the customer to receive additional address signaling from the end user. Such calls will be rated as CST BSA - Option 3.
- (10) Originating CST BSA - Option 3 Switched Access Service must be ordered for the completion of sent-paid coin calls. CST BSA - Option 3 with coin sent-paid capability is provided direct to suitably equipped Telephone Company end offices or via TOPS tandem switches.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(B) Basic Service Elements (BSEs) and Optional Features(1) Common Switching BSEs

- (a) Automatic Number Identification (ANI)
- (b) Alternate Routing - Multiple Customer Premises Routing\*\*
- (c) Flexible Automatic Number Identification (Flexible ANI)
- (d) Trunk Group Make Busy \*\*

(2) Common Switching Optional Features

- (a) Service Class Routing\*
- (b) Alternate Traffic Routing - End Office Alternate Routing\*\*
- (c) International Carrier Option\*
- (d) End Office End User Line Service Screening for Use with WATS Access Line Service
- (e) Hunt Group Arrangement for Use with WATS Access Line Service
- (f) Uniform Call Distribution Arrangement for Use with WATS Access Line Service

\* Not available with Minimum Divergence Access Service.

\*\* Not available in designated electromechanical end offices or with Minimum Divergence Access Service. (Z)

(TR 1180)

Issued: August 6, 1999

Effective: August 21, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)(B) Basic Service Elements (BSEs) and Optional Features (Cont'd)(2) Common Switching Optional Features (Cont'd)

- (e) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service
- (f) Band Advance Arrangement for Use with WATS Access Line Service
- (g) Routing of IntraLATA Calls to the Telephone Company for Use with WATS Access Line Service
- (h) SWITCHWAY Service Access Capability
- (i) Multiple Trunk Routing
- (j) Carrier Identification Parameter

(3) Transport Termination Optional Features

- (f) Operator Trunk, Full Feature Arrangement
- (g) Operator Trunk, Assist Feature Arrangement

(4) Local Transport Optional Features

- (f) Supervisory Signaling (as set forth in 6.1.3(A)(2)(a) preceding)
- (g) Signaling System 7 (SS7) Signaling Option (as set forth in 6.1.3(A)(2)(d) preceding)
- (h) Coin sent-paid capability (as set forth in 6.1.3(A)(2)(f) preceding)
- (i) 64 kbps Clear Channel Capability (as set forth in 6.1.3(A)(2)(g) preceding)
- (e) Tandem Signaling (as set forth in 6.1.3(A)(2)(i) preceding)
- (f) Switched Wideband Capability (as set forth in 6.1.3(A)(2)(j) preceding).

(5) WATS Access Line Service Termination Optional Features

- (f) E&M Supervisory Signaling
- (g) Answer Supervision

(C) Transmission Specifications

CST BSA - Option 3 is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.9 Circuit Switched Trunk (CST) BSA - Option 3 (Cont'd)

## (C) Transmission Specifications (Cont'd)

- When routed to an access or TOPS tandem only Type A is provided.
- Type A is provided on the transmission path from the access or TOPS tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1, Type A and Type B Transmission Specifications are provided with Interface Groups 2, 6, 7\* and 9.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises or multiplexing node and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with CST BSA - Option 3 for the transmission path between the customer's premises or multiplexing node and the end office when directly routed to the end office.

## (D) Testing Capabilities

CST BSA - Option 3 is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.6 and 6.1.8 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing, and Nonscheduled Testing, are available for CST BSA - Option 3 as set forth in 13.3.5 following.

(S)(x)

\* New England Telephone only

- (x) Issued on not less than 1 day's notice under authority of Special Permission No. 99-56 to include material filed by the NYNEX Telephone Companies under Transmittal No. 546 and which became effective in the NYNEX Telephone Companies Tariff F.C.C. No. 1 on April 16, 1999.

(TR 1129)

Issued: April 27, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.10 Circuit Switched Trunk (CST) BSA - Option 4 (Direct Inward Dialing (DID))(A) Description

- (1) CST BSA - Option 4 is provided at Telephone Company designated electronic end office switches on a direct end office basis only.
- (2) CST BSA - Option 4 provides a trunk side termination with line treatment at the first point of switching. The trunk side termination is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.
- (3) CST BSA - Option 4 is provided at the option of the customer with Dial Pulse (DP), Multifrequency (MF), or Dual Tone Multifrequency (DTMF) address signaling at suitably equipped end office switches. When it is provided on a multiple trunk group basis, all of the signaling must be of the same type: The DP, MF, or DTMF address signaling delivers up to seven digits of the called telephone number only, and no other address signaling is provided by the Telephone Company. Additional address signaling, if required by the customer, must be provided by the customer's end user inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) CST BSA - Option 4 is available in the originating direction. CST BSA - Option 4 is available in the terminating direction when ordered with the DNIS on 800 BSE. When CST BSA - Option 4 with DNIS on 800 is ordered, the customer must have an associated CST BSA - Option 1, 2 or 3 Switched Access Service from the customer premises or multiplexing node to the DNIS on 800 serving office.
- (5) The CST BSA - Option 4 requires a seven digit local telephone number in the form NXX-XXXX which is assigned by the Telephone Company.
- (6) Usage measurement is not available with originating CST BSA - Option 4, therefore, the monthly originating assumed minutes of use as set forth in 6.7.6. following will be applied per trunk.
- (7) When terminating CST BSA - Option 4 is ordered with the DNIS on 800 BSE, the DNIS on 800 BSE must be ordered for all of the trunks in the same trunk group.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.10 Circuit Switched Trunk (CST) BSA - Option 4 (Direct Inward Dialing (DID))(B) Basic Service Elements (BSEs) and Optional Features

## (1) Common Switching BSEs

## (a) Dialed Number Identification Service (DNIS) on 800

## (2) Common Switching Optional Features

## (a) Dial Pulse Address Signaling

## (b) Multifrequency Address Signaling

## (c) Dual Tone Multifrequency Address Signaling

## (d) Delay Dial Start-Pulsing Signaling

## (e) Immediate Dial Pulse Address Signaling

## (3) Blocks of telephone numbers for use with CST BSA - Option 4 are provided under the Telephone Company's state and/or local exchange tariffs

(C) Transmission Specifications

CST BSA - Option 4 is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2, 6 and 9. Type DB Data Transmission Parameters are provided with CST BSA - Option 4 to the first point of switching.

(D) Testing Capabilities

In addition to the tests described in 6.1.6 preceding which are included with installation of service, additional Cooperative Acceptance Testing and Nonscheduled Testing are available for CST BSA - Option 4 as set forth in 13.3.5 following.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.11 Entrance Facilities and Direct Trunked Transport(A) Description(1) Voice Grade

A Voice Grade facility provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. A Voice Grade Entrance Facility is provided between a customer designated premises and the serving wire center of the customer premises. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based on the V & H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from. Except when the Tandem Signaling option is provided, a Voice Grade Direct Trunked Transport Facility may be provided between the serving wire center of the customer premises or an Intermediate or Super Intermediate Hub and either an end office or an access tandem. When the Tandem Signaling Facility Option is provided, a Voice Grade Direct Trunk Transport Facility may only be provided between the serving wire center of the customer premises or an Intermediate or Super-Intermediate Hub and an end office.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.11 Entrance Facilities and Direct Trunked Transport (Cont'd)(A) Description (Cont'd)(2) DS1 Facility

A DS1 facility provides for the transmission of up to 24 Voice Grade equivalent channels. The actual bit rate and framing formats are a function of the channel interface selected by the customer. A DS1 Entrance Facility is provided between a customer designated premises, multiplexing node or virtual collocation arrangement and the serving wire center of the customer premises, multiplexing node or virtual collocation arrangement. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises, multiplexing node or virtual collocation arrangement, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based on the V&H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from. Except when the Tandem Signaling option is provided, a DS1 Direct Trunked Transport facility may be provided between the serving wire center of the customer designated premises, multiplexing node or virtual collocation arrangement and an end office, access tandem or Telephone Company multiplexing Hub. Except when the Tandem Signaling option is provided, DS1 Direct Trunked Transport may also be provided between a Hub and an end office or access tandem. DS1 Direct Trunked Transport may also be provided between a Hub and an end office or access tandem. DS1 Direct Trunked Transport with the Tandem Signaling option may be provided between the serving wire center of the customer designated premises, multiplexing node or virtual collocation arrangement and an end office or a Telephone Company multiplexing Hub.

(Z)

(TR 1180)

Issued: August 6, 1999

Effective: August 21, 1999

## ACCESS SERVICES

6. Switches Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.11 Entrance Facilities and Direct Trunked Transport (Cont'd)(A) Description (Cont'd)(3) DS3 Facility

A DS3 facility provides for the transmission of up to 672 Voice Grade equivalent channels on digital optical equipment and lightwave facilities selected by the Telephone Company. A DS3 Entrance Facility is provided between the customer designated premises, multiplexing node or virtual collocation arrangement and the serving wire center of the customer premises, multiplexing node or virtual collocation arrangement. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises, multiplexing node or virtual collocation arrangement, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based in the V & H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from. At the customer premises, multiplexing node or virtual collocation arrangement, an optical fiber interface and digital optical equipment convert the signal from optical to electrical. A 110 volt AC, 15 amperes, separately fused, non-switched controlled, single power outlet must be provided by the customer at the customer designated premises, multiplexing node or virtual collocation arrangement. Except when the Tandem Signaling option is provided, a DS3 Direct Trunked Transport facility may be provided between the serving wire center of the customer designated premises, multiplexing node or virtual collocation arrangement and an end office, access tandem or Telephone Company multiplexing Hub. When the Tandem Signaling option is provided, a DS3 Direct Trunked Transport facility may be provided between the serving wire center of the customer designated premises, multiplexing node or virtual collocation arrangement and an end office or Telephone Company multiplexing Hub.

At the option of the customer, a DS3 facility may be provided with an optical interface at four levels of capacity, (i.e., as three (135 Mbps), nine (405 Mbps)\*, twelve (560 Mbps) groups) or forty eight (2.488 Gbps) of DS3 facilities. The customer may order a minimum of 1 and a maximum of 3 DS3 facilities for the 135 Mbps capacity; a minimum of 2 and a maximum of 9 DS3 channels for the 405 Mbps capacity; a minimum of 2 and a maximum of 12 DS3 channels for the 560 Mbps capacity; or a minimum of 7 and a maximum of 48 DS3 channels for the 2.488 Gbps capacity. The optical DS3

\* New York Telephone only.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.11 Entrance Facilities and Direct Trunked Transport (Cont'd)(A) Description (Cont'd)(3) DS3 Facility (Cont'd)

may be provided as an Entrance Facility between a customer designated premises and the serving wire center of the customer designated premises subject to availability of facilities. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based upon the V & H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from.

The customer must provide Optical Line Terminating Multiplexing Equipment (OLTM) in lieu of Telephone Company provided digital optical equipment. Within each capacity level, individual DS3 facilities will be derived from OLTM equipment at the serving wire center of the customer designated premises. The customer provided OLTM must be compatible with the OLTM equipment employed by the Telephone Company as listed below. The customer may also employ any device that supports an OC3, OC12 or OC48 interface as described in TR-NWT-000253, Issue No. 2 for Synchronous Optical Network (SONET) Transport Systems. The Telephone Company employs the following OLTM equipment:

New England Telephone (NET)

- NEC Model 1840A for 135 Mbps capacity
- Rockwell Model 1565D for 560 Mbps capacity

New York Telephone (NYT)

- NEC Model 1840A or Rockwell Model 3X50 for 135 Mbps capacity
- AT&T Model FT Series G for 405 Mbps capacity
- NEC Model 31201A or Rockwell Model 1565D for 560 Mbps capacity

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.11 Entrance Facilities and Direct Trunked Transport (Cont'd)(A) Description (Cont'd)(3) DS3 Facility (Cont'd)

The selection of the OLTM will determine the characteristics of the standard interface. The Telephone Company may request cooperative testing through the customer provided equipment (e.g., fiber OLTM, etc.) at the time of installation or in the event of a transmission failure.

(4) SONET Facility

A SONET facility provides for the transmission of up to 672 Voice Grade equivalent channels (SONET STS1), up to 2016 voice grade equivalent channels (SONET OC-3), up to 8064 Voice Grade equivalent channels (SONET OC-12), up to 32,256 Voice Grade equivalent channels (SONET OC-48) or up to 129,024 Voice Grade equivalent channels (SONET OC-192). SONET facilities are described in 6.2.13 and Section 26. following.

(T)

(C)

(B) Channel Interfaces

Compatible channel interfaces for Voice Grade, DS1 or DS3 Entrance Facilities are set forth in 6.1.3(A)(1) preceding.

Compatible channel interfaces for SONET Services used as Switched Access entrance facilities are set forth in Section 26. following.

(C) Transmission Specifications

The transmission specifications for Voice Grade, DS1, DS3 and IDSR facilities are set forth in 6.4 following.

(TR 1346)

Issued: November 7, 2000

Effective: November 22, 2000

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICES

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service(A) General

Facilities Management Service (FMS) is a service option that provides for Telephone Company management of engineering and design of a customer's Switched Access Service network from the customer's designated primary premises location(s) to end offices and/or tandem access switching offices within the same LATA. With FMS, the Telephone Company assumes responsibility for the routing of the customer's dedicated circuits over the Telephone Company's Switched Access Service network in order to maximize network efficiencies and to optimize economic efficiencies.

(B) Definitions

The following definitions are specific to FMS and are in addition to the definitions set forth in Section 2.6 preceding.

DSO Equivalency

The term "DSO Equivalency" denotes a measure of DSO channels, that are the basic building blocks for high capacity digital services. The DSO equivalency for the service levels provided with FMS are as follows.

<u>Service Level</u>	<u>DSO Equivalency</u>
OC12	8.064
OC3	2,106
DS3 High Capacity or STS1	672
DS1 High Capacity	24
Voice Grade Circuit	1

FMS Entrance Facility

The term "FMS Entrance Facility" denotes the transmission facilities between a customer's network interface at its designated primary premises and the associated serving wire center.

Network Interface

The term "Network Interface" denotes the interface point at a customer's designated primary premises where connection is made between the FMS network and the customer's network. FMS network interfaces include electrical DS1, DS3 and STS1 or optical IEF OC3 and OC12 interfaces.

(T)  
(T)

(TR 1338)

Issued: October 17, 2000

Effective: November 1, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)(B) Definitions (Cont'd)Primary Premises

The term "Primary Premises" denotes a location designated by the customer that meets the criteria for one of the following two types, as follows.

Type 1: A location with an entrance facility of a minimum of 672 Switched and/or Special Access in-service DSO equivalent channel terminations and a DS3, STS1, OC3 or OC12 network interface(s), or an Expanded Interconnection multiplexing node with service cross-connected at the DS3 level and an electrical DS3 network interface. (C)

Type 2: A location with an FMS Entrance Facility of a minimum of 144 Switched and/or Special Access in-service DSO equivalent channels provided over DS1 network interface(s), or an Expanded Interconnection multiplexing node with service cross-connected at the DS1 level and a DS1 interface. (C)

(C) Service Description

With FMS, the Direct Trunked Transport element of the Switched Access Services Local Transport rate category is provided to the customer over discrete facilities. Engineering of the service from the FMS entrance facility at the customer's designated primary premises to the end offices and/or tandem access switching offices is done by the Telephone Company over its Switched Access network. The channel routing may not be designated by the customer as it is for most Telephone Company Switched Access Services.

FMS provides the customer with an alternative to the customer's self-management of its network of standard Switched Access Service channels.

FMS is available in all of the Telephone Company's operating territories and is provided on a LATA-wide basis.

Facilities Management Service is provided on a month-to-month basis or, at the option of the customer, under a three-year term plan or a five-year term plan. The minimum period for FMS is one year.

(TR 1329)

Issued: September 13, 2000

Effective: September 28, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(D) Minimum Service Requirements

The customer must have at least one premises within a LATA that is designated as its primary premises for FMS as defined in (B) preceding.

All Switched Access Services at the customer's designated primary premises must be included in the FMS plan for that LATA. However, a single plan may not include a mix of Type 1 and Type 2 primary premises as defined in (B) preceding.

The minimum requirements for Type 1 or Type 2 Primary Premises are as set forth in (B) preceding.

(E) Terms and Conditions

- (1) In its initial order for FMS, the customer will designate the LATA, type of primary premises and whether FMS will be provided on a month-to-month basis or under a term plan as selected by the customer.
- (2) Only one FMS plan is allowed per LATA. The plan may be provided on a month-to-month basis or under a single term commitment as selected by the customer, but not both.
- (3) When FMS is provided under a term plan of 3 or 5 years, the customer must maintain an annual minimum of ninety percent (90%) of the initial commitment of DSO equivalent services for the preceding twelve months. The Telephone Company will conduct a true up which compares the average number of DSO equivalents actually in service over the preceding twelve months to the annual minimum of ninety percent (90%) of the initial commitment.

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(E) Terms and Conditions (Cont'd)

- (4) In the event that the annual average number of DSO equivalent services falls below 90% of the commitment level for the plan, the customer has the following options.

- (a) Buy down the commitment level by paying termination liability on the shortfall between the commitment level and the annual average for the preceding 12 months. Termination liability is as set forth in (G)(3) following. The new commitment level may not be less than the minimum service requirements for FMS as described for Type 1 or Type 2 Primary Premises in (B) preceding; or

- (b) Retain the original commitment level and pay 12 months of charges for the DSO equivalent shortfall using the customer's average DSO rate based on the previous 12 months billing. The Telephone Company will calculate the shortfall charges as follows.

(Step 1) The Telephone Company will calculate the average number of DSO equivalent channels that were in-service over the preceding twelve months by summing the actual number of DSO equivalent channels for each of the last twelve months and dividing by twelve. The resulting number represents the average DSO equivalent channels per month.

(Step 2) The Telephone Company will calculate the average DSO rate for an equivalent DSO by first summing the total monthly charges associated with each DSO which was in-service over the preceding twelve months and dividing by twelve. The resulting amount is then divided by the average monthly DSO equivalent channels determined in Step 1.

(Step 3) The Telephone Company will determine the shortfall by subtracting the average number of DSO equivalent channels determined in Step 1 from the number of DSO equivalent channels in the original commitment level, and multiplying the difference by the average rate per DSO equivalent determined in Step 2. The resulting amount is the shortfall charge due from the customer. Such charge is not subject to any late payment factor as specified in Section 2.4.1 preceding.

- (c) Apply Time In-Service Credits (TISCs) as set forth in (G)(1) following to offset the shortfall.

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042



## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)(E) Terms and Conditions (Cont'd)

- (5) If the FMS term plans in multiple LATAs share a common expiration date and the same type of primary premises, the associated commitment levels will be aggregated into a single total. Fulfillment of the commitment level will be determined as stated in (E)(3) preceding; however, the calculation will be on the aggregate level for all eligible LATAs.
- (6) The customer will provide either DS1 or electrical DS3 network interfaces at each primary premises.
- (7) The FMS customer, when ordering Switched Access Services as set forth in 5.2 preceding, must specify the type of service and the primary premises involved.
- (8) The Telephone Company will provide the same service intervals and quality standards for services in an FMS plan as are provided for non-FMS Switched Access Services.
- (9) FMS is not applicable to the following Switched Access, Special Access or SONET Services and options:
  - IntelliLight® Dedicated SONET Ring (IDSR) as set forth in Section 6.2.13, 7.2.17 and 26.1.1 (T)
  - IntelliLight® Broadband Transport (IBT) as set forth in Section 26.1.5, except when associated with an IntelliLight Entrance Facility (T)
  - IntelliLight® Shared Assurance Network (ISAN) as set forth in Section 26.1.3 (T)
  - IntelliLight® Shared Single Path (ISSP) as set forth in Section 26.1.6, except when associated with an IntelliLight Entrance Facility (T)
  - NYNEX Enterprise Services as set forth in Section 7.2.13 (T)
  - Enterprise SONET Service as set forth in Section 26.1.2 (T)
  - Services provided under a Service Discount Plan or a Commitment Discount Plan, except as specified in 7.2.16(E)(13) following
  - Central Office Multiplexing optional features or BSEs
  - Automatic Loop Transfer as set forth in Section 7.2..9(D)(1) (T)
  - Transfer Arrangement as set forth in Section 7.2..9(D)(2) (T)
  - Premises other than Primary Premises as defined in 7.2.16(B) preceding
  - Service provided under a Shared Billing Arrangement as specified in Section 5.2 preceding, except as specified in (10) following.

(TR 1338)

Issued: October 17, 2000

Effective: November 1, 2000

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(E) Terms and Conditions (Cont'd)

- (10) Services provided under FMS may not be included in Shared Billing Arrangements. Any service already provided under a Shared Billing Arrangement at the time of subscription to FMS must be converted within the first twelve months of the effective date of establishing FMS.

Prior to conversion, such services will not be included in the DSO calculation to determine the customer's FMS Rate Band for billing of Primary Premises channels. However, these services will be billed at the same FMS rates as those applicable to the customer's other services provided under FMS.

The customer must remove the Shared Billing Arrangements prior to the end of the one year transition period. The Telephone Company will notify the customer sixty (60) days prior to the end of the transition period of any Shared Billing Arrangements that remain on the customer's account. Failure to eliminate such arrangements will result in termination of service with termination liability charges being applied.

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)(F) Application of Rates

At the customer's option, FMS is provided on a month-to-month basis, under a 3 year term plan or under a 5 year term plan. The rates for FMS include Standard FMS Channels, Office FMS Channel Terminations, FMS Channel Mileage, FMS Multiplexing and a rate per DSO equivalent for Administration. Such rates are subject to change over the term selected by the customer, thereby causing an increase or decrease in the rates applicable to the customer. The rates and charges for any other service or option not provided under the FMS rate plan are subject to the rates and charges for the type of service or option being provided. The FMS rate elements and the manner in which such elements apply are described in 1 through 5 following.

(1) Primary Premises Standard Entrance Facility

The Primary Premises Standard Entrance Facility is a DSO equivalent channel provided over the FMS entrance facilities connecting the customer's primary premises to its serving wire center. At the customer's primary premises, standard entrance facility terminations will be terminated over either an electrical STS1, DS3 or DS1 interface or an IEF OC12 or OC3 optical interface. (C)  
(C)

The DSO channels provided over a DS3 or higher interface are differentiated as being one of the initial 0 through 672 DSO equivalent channels, for which a flat rate applies, or as being one of the DSO channels over the initial 672, for which a rate for each DSO equivalent channel over 672 DSO equivalent channels applies as specified in Section 31.6.9. For term plan billing, a rate per DSO equivalent channel applies for each DSO channel provided and is further subject to the rate bands specified in Section 31.6.9(B)(1) following. (C)  
(T)

The DSO channels provided over a DS1 interface are differentiated as being one of the initial 0 through 144 DSO equivalent channels, for which a flat rate applies, or as being one of the DSO channels over the initial 144, for which a rate for each DSO equivalent channel over 144 DSO equivalent channels applies as specified in Section 31.6.9 following.

(TR 1329)

Issued: September 13, 2000

Effective: September 28, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(F) Application of Rates (Cont'd)

## (2) Primary Premises Office Channel Termination

The Primary Premises Office Channel Termination provides for termination of FMS channels to an Expanded Interconnection multiplexing node. At the customer's multiplexing node designated as its primary premises, office channel terminations will be terminated over an electrical DS3 interface or a DS1 interface.

For the DS3 interface, the rates for the primary premises office channel terminations are differentiated as being one of the initial 672 DSO equivalent channels, for which a flat rate applies, or as being one of the DSO channels over the initial 672, for which a rate for each DSO equivalent channel over 672 DSO equivalent channels applies as specified in Section 31.6.9 following. The rates are further differentiated by the type of billing arrangement (i.e., month-to-month billing or term plan billing).

For the DS1 interface, the rates for the primary premises office channel terminations are differentiated as being one of the initial 144 DSO equivalent channels, for which a flat rate applies, or as being one of the DSO channels over the initial 144, for which a rate for each DSO equivalent channel over 144 DSO equivalent channels applies as specified in Section 31.6.9 following. The rates are further differentiated by the type of billing arrangement (i.e., month-to-month billing or term plan billing).

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)(F) Application of Rates (Cont'd)

## (3) Channel Mileage

The FMS Channel Mileage rate element applies as a fixed rate and a rate per mile for each DSO equivalent channel provided as FMS. For DS3 or STS1 FMS channel mileage, the rates are further differentiated as being basic or direct channel mileage. Basic channel mileage applies when the channel interface at the end office or the access tandem switching office has a signal rate that is less than DS3 and the channel interface code at the primary premises is DS3, STS1, OC3 or OC12. Direct channel mileage applies when the channel interface code at the primary premises is DS3, STS1, OC3 or OC12 and the end office or access tandem switching office has a DS3 signal rate.

(C)

(T)

(C)

(C)

The mileage is determined by calculating the airline distance between the serving wire center associated with the primary premises and the end office or access tandem. To determine the rate to be billed, first compute the mileage using the method described in 6.7.11 following and apply the rates shown in Section 31.6.9 following.

## (4) FMS Multiplexing

FMS multiplexing applies for each DSO equivalent channel provided as FMS. The rate for FMS multiplexing is differentiated by the level of multiplexing performed (i.e., DS3/STS1 to DS1 or DS1 to DSO).

(C)

## (5) Administration Fee

An administration fee applies for network administration performed by the Telephone Company. The fee applies for each DSO equivalent channel provided as FMS.

(TR 1329)

Issued: September 13, 2000

Effective: September 28, 2000

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(G) FMS Term Plans

When FMS is provided under a term plan, the customer must select a commitment period of either 3 or 5 years. For new installations, the FMS term plan shall be effective with the first bill following the establishment of FMS. When converting service from a Service Discount Plan to an FMS term plan, no termination liability charges will apply to the Service Discount Plan being discontinued. Additionally, if twenty-four months or more are remaining in the Service Discount Plan being discontinued, the portion of the commitment period already elapsed shall be applied to the FMS term plan on a Time-In Service Credit basis as specified in (1) following.

## (1) Time In-Service Credit (TISC)

TISCs are granted on a per DSO equivalent basis for each Switched Access Service converted from a Service Discount Plan to an FMS term plan when the plan being converted has at least twenty-four months remaining in the commitment period. TISCs are granted as follows.

- One TISC is given for each month or major fraction thereof that the service involved was provided under a Service Discount Plan. The maximum number of TISCs granted for a DSO equivalent channel may not exceed sixty (60), i.e., sixty months of credit, for time in-service. For example, at the time of conversion to FMS, a DS3 level Switched Access Service under a Service Discount Plan that has been in-service for the past 30 months with 480 of the 672 available channels provisioned will be granted 14,400 TISCs (480 DSO equivalents x 30 months in-service).
- One TISC can be used to offset, or buy down, 1 month of termination liability on a per DSO equivalent basis.
- Twelve (12) TISCs can be used to offset one FMS channel service below the minimum commitment level for a year as described in (E)(4)(c) preceding.

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(G) FMS Term Plans (Cont'd)

## (2) Renewal, Discontinuance or Conversion of an FMS Term Plan

The customer must provide the Telephone Company with at least three months' written notice prior to expiration of the commitment period of its desire to renew, discontinue or convert its FMS Term Plan.

## (a) Renewal of the FMS Term Plan

At the customer's option, the expiring FMS term plan may be renewed for either a 3 year term or a 5 year term.

## (b) Discontinuance of an FMS Term Plan

When the customer notifies the Telephone Company of its desire to discontinue its FMS term plan upon expiration of the commitment period, the Telephone Company will, upon request, assist the customer in designing a dedicated Switched Access Service network which supports the customer's traffic requirements.

In the event that the customer wishes to discontinue FMS and establish a new network arrangement, nonrecurring charges will not apply to convert the in-service channels to a new network arrangement. Nonrecurring charges will apply for the installation of any additional channels or optional features being established with the new network arrangement.

## (c) Conversion of an FMS Term Plan

When the customer notifies the Telephone Company of its desire to convert its FMS Services to standard Switched Access Services, FMS rates will continue to apply after expiration of the FMS term plan until such time as the conversion is complete or for a period not to exceed six months, whichever occurs first. Such FMS rates will apply only to the services not yet converted, through the date of conversion or six months, as applicable.

In the event that the Telephone Company does not receive written notification from the customer of its desire to renew, discontinue or convert its FMS Term Plan upon expiration of the term plan, the Telephone Company will convert billing on the customer's services to standard Switched Access Services at month-to-month rates (i.e., non-discounted rates).

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(G) FMS Term Plans (Cont'd)

## (3) Termination Liability

## (a) When Termination Liability Does Not Apply

Termination Liability does not apply when FMS is disconnected for the following reasons.

- (i) Cancellation of an FMS term plan within thirty (30) days of the effective date of a Telephone Company initiated rate increase that is greater than eight percent on any rate applicable to FMS.
- (ii) Conversion of an FMS term plan to an FMS term plan with a longer commitment period. The replacing FMS term plan will be subject to termination liability as specified in (b) following.
- (iii) Conversion of an FMS term plan to a Service Discount Plan provided that the following conditions are met.
  - FMS has been in-service for a minimum of twelve months; and
  - the quantity of DSO equivalent channel terminations in the new plan is equal to, or greater than, ninety percent (90%) of the existing FMS primary premises channel terminations or 90% of the original commitment level of FMS primary premises channel terminations, whichever is greater; and
  - the commitment period for the new Service Discount Plan is equal to, or greater than, the time remaining in the FMS term plan being converted.

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.12 Facilities Management Service (Cont'd)

(N)

(G) FMS Term Plans (Cont'd)

## (3) Termination Liability (Cont'd)

## (b) When Termination Liability Applies

Termination Liability applies when FMS is discontinued prior to the end of the selected commitment period, except as set forth in (a) preceding. The termination liability charge is computed as follows.

- (i) If FMS is discontinued within the first year of the selected commitment period, the termination liability charge is 100% of the total FMS monthly charges for each month and fraction thereof remaining in the twelve month minimum service period, plus 20% of the total monthly charges for each month and fraction thereof beginning the month following the minimum service period for the balance of the commitment period for the plan.
- (ii) If service is discontinued, or the customer wishes to buy down the commitment level as described in (E)(4)(a) preceding after the minimum service period has been satisfied but prior to the end of the selected commitment period, the termination liability charge is an amount equal to 20% of the total monthly charges for each month and fraction for the balance of the commitment period for the plan.
- (iii) When calculating the termination liability charge, the total monthly charges to be used will be the total monthly charges billable as of the date of discontinuance.

(N)

(TR 1214)

Issued: November 22, 1999

Effective: December 7, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring

## (A) Service Description

IntelliLight® Dedicated SONET Ring (IDSR) provides a customer a dedicated high capacity customized network. The network is in a ring architecture or topology that assures survivability in the event of loop failures.

IDSR is an alternative to basic high capacity Switched Access Service between a customer's location and an end office or access tandem. It is, therefore, rated discretely. Rate elements include nodes, ports and mileage between nodes. Rates are specified in 31.6.10 following.

The technical specifications for IDSR are set forth in GR-253-CORE, Issue 2, GR-1374-CORE, Issue 1 and GR-1377-CORE, Issue 5.

(N)

## (1) Terms and Conditions

IDSR may provide connectivity to multiple customer designated locations (nodes). However, an IDSR must have a minimum of three nodes. At least one node must be located in a Telephone Company Central Office (CO) and one must be located at a customer designated premises.

When a customer premises node is located in the same building as a CO node, there will be no diversity between the two nodes.

When a customer transmits STS1 signals, the mapping feature must be designated.

Extended Superframe Format (ESF) is required on all DS1 circuits in order to ensure performance objectives.

Additional nodes could be required to maintain service quality levels. Generally, a transmission of 20 or more miles or a transmission through 6 or more COs will be subject to loss of signal integrity, and would require an additional node. A regeneration node requires a full capacity node, i.e., an OC12/3 node cannot be used to regenerate transmission on an OC12 ring.

(TR 1346)

Issued: November 7, 2000

Effective: November 22, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

## (A) Service Description (Cont'd)

## (1) Terms and Conditions (Cont'd)

The customer will be billed additional charges for any charges levied the Telephone Company for space and power required to place ADMs on the Telephone Company's side of the network interface.

The customer specifies the ring capacity in terms of optical carrier rates. IDSR is available in capacities of OC3, OC12, OC48 and OC192. Lower speed channel services are provided between nodes via port designations. Accepted port speeds are as follows: (T)  
(C)

Nodes:	OC3	OC12	OC48	OC192	
DS1 Ports	X				(C)
DS3 Ports	X	X	X		
STS1 Ports	X	X	X		
OC3 Ports		X	X	X	(C)
OC12 Ports			X	X	(C)
OC48 Ports				X	(N)

When IDSR is provided in a Ring-on-Ring design of OC12+3, OC48+3, OC192+3, OC192+12 or OC192+48, the following requirements apply: (T)  
(C)

- The lower speed ring must have a minimum of two nodes located at either the customer designated premises or a Telephone Company wire center; and
- the Telephone Company must provide the lower speed nodes; and
- each lower speed node must be located at the same customer designated premises or Telephone Company wire center as its corresponding higher speed node.

Ports may be ordered in a symmetrical arrangement, e.g., DS3 Port to DS3 Port, or an asymmetrical arrangement, e.g., OC12 Port to DS3 Port. When asymmetrical port combinations are ordered, certain conditions apply.

(TR 1346)

Issued: November 7, 2000

Effective: November 22, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

## (A) Service Description (Cont'd)

## (1) Terms and Conditions (Cont'd)

Ports may be ordered in a symmetrical arrangement, e.g., DS3 Port to DS3 Port, or an asymmetrical arrangement, e.g., OC12 Port to DS3 Port. When asymmetrical port combinations are ordered, certain conditions apply:

- The higher speed port will be mapped based on the speed of the connecting service and port. The higher speed port is referred to as a Stub Hub in the arrangement.
- The Stub Hub port is only available at a premises node.
- The lower speed port(s) can be provided at customer premises and wire center nodes.
- Asymmetrical ports are available in the following combinations.

	<u>Node Speeds</u>	<u>Port Combinations</u>
OC12 IDSR Ring	OC12 - OC12	OC3 - DS3 OC3 - STS1
OC48 IDSR Ring	OC48 - OC48	OC3 - DS3 OC3 - STS1 OC12 - DS3 OC12 - STS1

(N)

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

## (A) Service Description (Cont'd)

## (1) Terms and Conditions (Cont'd)

IDSR Mileage is the total of airline distances between nodes rounded up to the nearest mile. The mileage rate is based on total ring capacity and not on individual services between nodes. For example, the mileage charge for a four-node OC3 ring with 5.1 miles between each node (20.4 total miles) would be calculated by multiplying the OC3 mileage rate in Section 31.6.10(B) by 21 miles. This mileage calculation applies regardless of the number of services (e.g., DS3s) on the ring.

The customer may provide a single node and associated port equipment at one of its premises subject to compatibility with the Telephone Company's equipment in the COs. This compatibility requires that the customer, at its own expense, uses matching vendor's equipment and maintains the same vintage in software release as the Telephone Company. Upon written notification from the Telephone Company, the customer has 60 days in which to complete the change out of software. In addition, the customer must configure the node to limit access to the data communications channel of the node.

The Telephone Company can not ensure the performance monitoring of the ring when it is equipped with customer provided nodes.

(N)

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

Vice President  
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## ACCESS SERVICE

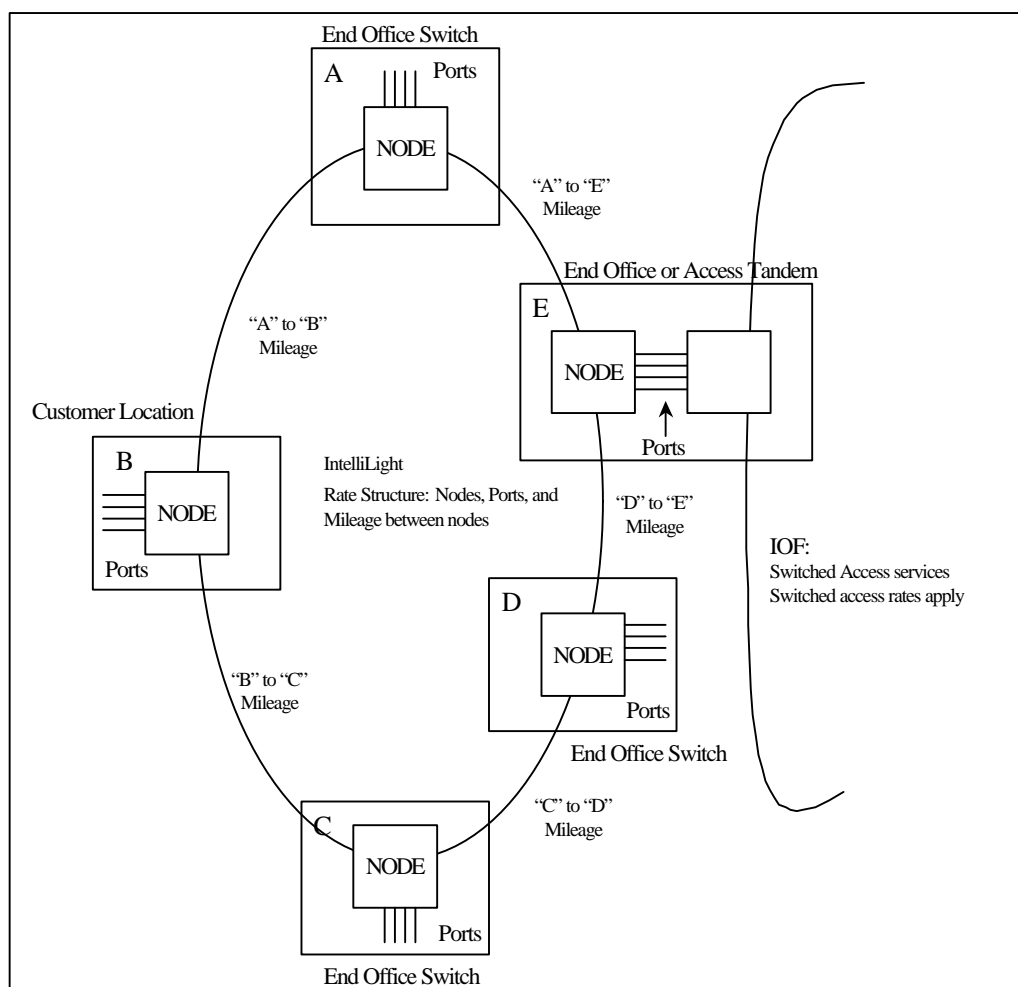
6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

## (A) Service Description (Cont'd)

## (1) Terms and Conditions (Cont'd)

An example of an IntelliLight® Dedicated SONET Ring is diagrammed below:



(N)

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

## (A) Service Description (Cont'd)

## (1) Terms and Conditions (Cont'd)

IDSRs are available for 3, 5 and 7 year commitment periods which apply to ports, nodes and mileage. IDSR Ports are also available on monthly terms. Nodes and ports added subsequent to the initial installation may be coterminous to the expiration date of the IDSR provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. Nodes added after the aforementioned periods require extending the commitment period for an additional one-year for a 3-year plan, an additional 2 years for a 5-year plan, or an additional 3 years for a 7-year plan. However, ports in a Month-to-Month plan may be added at any time.

Monthly recurring charges apply for the nodes, ports, and the mileage between nodes. Once a term period expires, the prevailing rates of the current plan will continue until the customer cancels service or requests a new term plan.

Nonrecurring charges for IDSR apply on a first and additional basis for the initial installation of ports on a month-to-month term and to subsequent installations for all ports and nodes. Additionally, first and additional charges apply to the subsequent installation of like ports at the same node at the same time.

Changes in Month-to-Month ports are treated as disconnects and subsequent installations.

When High Capacity Service or ISSP is provided between two separate IDSR rings, the associated ports must be symmetrical.

(N)

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

## (A) Service Description (Cont'd)

## (2) Termination Liability

Termination liability applies to IDSR service and is charged per rate element on all nodes and ports, except Month-to-Month ports for which the one-month minimum service charge applies.

IDSR service may be canceled without termination liability when cancellation of the IDSR service occurs within thirty (30) days of the date of a Telephone Company initiated rate increase of eight percent (8%) or more on any rate applicable to the IDSR service.

Termination liability will not apply if a customer changes to a longer-term commitment period.

Termination liability will not apply to a customer upgrade (change to a higher capacity) IDSR node or port, if all of the following conditions are met:

- (i) A new commitment period commences with the upgrade; and
- (ii) The new expiration date must extend beyond the discontinued plan date.
- (iii) The new IDSR service is provided at the same customer and/or Telephone Company location(s) as the discontinued service plan.
- (iv) Additional nodes and ports added at the time of the upgrade incur all applicable rates.

(N)

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

Vice President  
2980 Fairview Park Drive, Falls Church, VA 22042



## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)

## 6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

## (A) Service Description (Cont'd)

## (2) Termination Liability (Cont'd)

Termination liability will apply when the conditions above are not met and the customer cancels service prior to expiration of the plan period. If the cancellation occurs within the first year of a term plan, termination liability is equal to 100 percent of the monthly charges for the unexpired portion of the first year, and 15 percent of the monthly charges for the remainder of the plan. If the customer cancels after the first year of service, then termination liability is equal to 15 percent of the monthly charges for the remaining life of the term. (T)  
(T)

For IntelliLight® Dedicated SONET Ring (IDSR) with a commitment period which was extended under (6) following, termination liability is calculated as the difference between the monthly rates for the highest Term Pricing Plan commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates already paid for the expired commitment period and the extended commitment period for the period of time the service was in effect.

(TR 1311)

Issued: July 7, 2000

Effective: July 22, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

## (A) Service Description (Cont'd)

## (3) Conversions

Customers who wish to move or convert existing high capacity Switched Access Services to an IDSR may do so without conversion charges (termination liability and installation charges) as long as the total capacity of Switched Access service purchased by the customer does not decrease.

## (4) Deployment and Availability

Since IDSR service provides a dedicated high capacity customized network, it is deployed upon customer request. Where SONET facilities are not generally available, rates and charges as set forth in The Bell Atlantic Telephone Companies Tariff F.C.C. No. 13, Special Construction, may apply.

IDSR is available based on negotiated intervals as described in 5.2.1(B) preceding.

## (5) Shared Use

Shared Use is permitted whenever Special Access and Switched Access are provided over the same IDSR. The regulations for Shared Use Facilities are set forth in Section 5.2.7 preceding.

(N)

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service (Cont'd)6.2.13 IntelliLight® Dedicated SONET Ring (Cont'd)

## (A) Service Description (Cont'd)

## (6) Extension of a Commitment Period

For IntelliLight® Dedicated SONET Ring (IDSR), the customer also has the option, within sixty (60) days prior to the expiration date for its commitment period, to extend its expiring Term Pricing Plan to a plan with a longer commitment period, for which time-in-service credit will be allowed for the expiring plan. The commitment period selected for the extended plan must be longer than the commitment period of the expiring plan as follows:

- An expiring 3-Year Term may be extended to either a 5-Year or 7-Year Term Plan.
- An expiring 5-Year Term may be extended to a 7-Year Term Plan.

Time-in-service credit on the expiring plan will be granted and applied towards the new extended plan. For example, an expiring 3-Year term plan will allow for 3 years of time-in-service credit towards the extended plan.

The rate for the longer commitment period will apply effective with the first bill day following expiration of the commitment period for the existing plan and continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount associated with the extended plan will be made to the monthly rates already billed on the expiring plan. (T)

## (7) Channel Interface Codes

The following channel interface codes are for use with IDSR:

<u>CI</u>	<u>CI</u>
02SOF.B	04SOF.B
02SOF.BB	04SOF.D
02SOF.BU	04SOF.F
02SOF.D	
02SOF.DB	
02SOF.DU	
02SOF.F	
02SOF.FB	
02SOF.FU	
02SOF.I	
02SOF.U	

(TR 1311)

Issued: July 7, 2000

Effective: July 22, 2000

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)

Following are descriptions of the various optional features and BSEs that are available in lieu of, or in addition to, the standard features provided with the Switched Access Service Arrangements. They are provided as either Common Switching, Transport Termination or WATS Access Line Service Termination options.

6.3.1 Common Switching(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for the completion only of calls to 411, 611, 911, 800, 555-1212, and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. All other "toll" calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. It is available as a nonchargeable option with Feature Group A or CSL BSA.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0-, 555 and N11 (e.g., 411, 611, and 911). This feature is provided where available in all Telephone Company electronic end offices and electromechanical end offices. It is available as a nonchargeable option with Feature Group A or CSL BSA.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(C) Hunt Group Arrangement

This option, which is also offered as a BSE with CSL BSA, provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. FGA or CSL BSA Services with different methods of providing off-hook supervisory signaling (i.e., provided by the customer's equipment vs. forwarded by the customer's equipment when the called party answers) cannot be mixed in the same hunt group arrangement. All lines in the hunt group must be provided in the same manner (i.e., all FGA or all CSL BSA). It is available as a nonchargeable option with Feature Group A or as a chargeable BSE with CSL BSA.

Additionally, FGA or CSL BSA Services provided by multiple customers to the same end user may not be combined in a single hunt group unless the Local Transport Facility mileage distance is the same for each customer [i.e., the distance between each customer's serving wire center and the first point of switching (dial tone office) to which the FGA or CSL BSA Services are ordered is the same].

(D) Uniform Call Distribution Arrangement

This option, which is also offered as a BSE with CSL BSA, provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. All lines in the multiline hunting arrangement must be provided in the same manner (i.e., all FGA or all CSL BSA). It is available as a nonchargeable option with Feature Group A or as a chargeable BSE with CSL BSA.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features  
and Basic Service Elements (BSEs) (Cont'd)6.3.1 Common Switching (Cont'd)

- (E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement

This option, provides an arrangement for an individual line within a multiline hunt or uniform call distribution group that provides access to that line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Telephone Company electronic end offices only. It is available as a nonchargeable option with Feature Group A or CSL BSA.

- (F) Automatic Number Identification (ANI)

Except when Prepaid Calling Service Access is provided, this option, which is also offered as a BSE with CST BSA - Option 3, provides the automatic transmission of a seven or ten digit number and information digits to the customer's premises, multiplexing node or virtual collocation arrangement for calls originating in the LATA, to identify the calling station. When Prepaid Calling Service Access is provided, this option, which is also offered as a BSE with CST BSA - Option 3, provides the automatic transmission of a seven or ten digit number and information digits to the customer's premises, multiplexing node or virtual collocation arrangement for calls originating in the LATA, to identify the call as a Prepaid Calling Service card call. The ANI feature is an end office software function which is associated on a call-by-call basis with (1) all individual transmission paths in a trunk group routed directly between either an end office or an access tandem and a customer's premises, multiplexing node or virtual collocation arrangement, or, where technically feasible, with (2) all individual transmission paths in a trunk group between an end office and an access tandem.

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(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

The seven digit ANI telephone number is available with Features Group B and C. With these Feature Groups, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty lines, Public Telephone Service lines using Feature Group B, or when an ANI failure has occurred.

The ten digit ANI telephone number is only available with Feature Group D or CST BSA - Option 3 provided with multifrequency address signaling. The ten digit ANI telephone number consists of the Numbering Plan Area (NPA) plus the seven digit ANI telephone number.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

The ten digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below).

When the SS7 signaling option is specified, the customer will be provided an ANI equivalent, the Charge Number feature. The Charge Number feature is specified in 6.3.4 following.

With Feature Group C, ANI is provided from end offices at which Telephone Company recording for end user billing is not provided, or where it is not required, as with 800 service. It is not provided from end offices for which the Telephone Company needs to forward ANI to its recording equipment.

Where ANI cannot be provided (e.g., on calls from 4 and 8 party services), and on calls using Prepaid Calling Service Access, information digits will be provided to the customer.

The information digits identify: (1) telephone number is the station billing number - no special treatment required, (2) multiparty line - telephone number is a 4- or 8-party line and cannot be identified - number must be obtained via an operator or in some other manner, (3) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner, (4) hotel/motel originated call which requires room number identification, (5) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, (6) call is Automatic Identified Outward Dialed (AIOD) call from customer premises equipment and (7) call is made using a Prepaid Calling Service card. The ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (Cont'd)6.3.1 Common Switching (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

These ANI information digits are available with Feature Groups B, C, D and CST BSA - Option 3.

ANI is provided as a nonchargeable option with FGB, C and D and as a chargeable BSE with CST - Option 3.

The ANI BSE for use with CST BSA - Option 3 must be ordered, by Carrier Identification Code, on a LATA wide basis.

The ANI information digits shall only be used for billing and collection, routing, screening, and completion of originating subscriber's call or transaction or for services directly related to the originating subscriber's call or transaction.

The ANI provided shall not be reused or resold without first notifying the originating telephone subscriber and obtaining affirmative consent of the subscriber for reuse or resale.

Unless the originating subscriber has given consent for reuse or resale, any information provided shall not be used for any purpose other than:

- Performing the services or, transactions that are the subject of the originating subscriber's call;
- ensuring network performance security, and the effectiveness of call delivery;
- compiling, using and disclosing aggregate information; and,

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)

- complying with applicable laws.

The above restrictions shall not prevent the subscriber to the ANI option from using information acquired from an ANI option, such as the telephone number and billing information or information derived from analysis of the characteristics of calls received through the ANI option, to offer a product or service that is directly related to the products or services previously purchased by a customer of the ANI option subscriber.

(G) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for end office capability of providing up to 7 digits of the uniform access code (950-XXXX) to the customer's premises or multiplying node. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer's premises, multiplexing node or virtual collocation arrangement using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available as a nonchargeable option with Feature Group B or CST BSA - Option 1.

(H) Revertive Pulse Address Signaling

This option provides for a dc pulsing arrangement that transmits intelligence in the following manner:

- The equipment at the originating location presets itself to represent the number of pulses required and to count the pulses received from the terminating location.
- The equipment at the terminating location transmits a series of pulses by the momentary grounding of its battery supply until the originating location breaks the dc path to indicate that the required number of pulses has been counted.

It is available as a nonchargeable option with Feature Group C or CST BSA - Option 2.

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(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(I) Delay Dial Start-Pulsing Signaling

This option provides a method of indicating to the near end trunk circuit readiness to accept address signaling information by the far end trunk circuit. Delay dial is often referred to as an off-hook, on-hook signaling sequence. The delay dial signal is the off-hook interval and the start-pulsing signal is the on-hook interval. With integrity check, the calling office will not outpulse until a delay dial (off-hook) signal followed by a start-pulsing (on-hook) signal has been identified at the calling office. It is available as a nonchargeable option with Feature Group C or CST BSA - Option 2 or 4.

(J) Immediate Dial Pulse Address Signaling

This option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a start-pulsing signal from the customer. It is available as a nonchargeable option with Feature Group C or CST BSA - Option 2 or 4.

(K) Dial Pulse Address Signaling

This trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer's premises, multiplexing node or virtual collocation arrangement (in either direction) by means of direct current pulses. It is available as a nonchargeable option with Feature Group C or CST BSA - Option 2 or 4.

(L) Panel Call Indicator Address Signaling

This option provides a dc pulsing arrangement in which each digit is transmitted as a series of four marginal and polarized impulses. It is available as a nonchargeable option with Feature Group C or CST BSA - Option 2.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(M) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, multiplexing node or virtual collocation arrangement, based on the line class of service (e.g., coin, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+), service access code (e.g., 500, 800 or 900) and/or bearer capability. With the exception of Service Class Routing by bearer capability, Service Class Routing is provided in suitably equipped end office or access or TOPS tandem switches and is available as a nonchargeable option with Feature Groups C, D and CST BSA - Option 2 or 3. Service Class Routing by bearer capability is only available in suitably equipped end offices as a nonchargeable option with Feature Group D or CST BSA - Option 3 when ordered with the SS7 Signaling Option.

(N) Alternate Traffic Routing(1) Multiple Customer Premises Alternate Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises, multiplexing node or virtual collocation arrangement until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or Telephone Company access tandem to a different trunk group (the "final" group) to a second customer designated premises, multiplexing node or virtual collocation arrangement. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office switches or suitably equipped Telephone Company access tandem switches and is available as a nonchargeable option with Feature Groups B, C and D. It is not available from end offices where Minimum Divergence Access Service is provided, or in designated electromechanical end offices, or when the Tandem Signaling Option is provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(N) Alternate Traffic Routing (Cont'd)(2) End Office Alternate Routing When Ordered in Trunks

This option provides an alternate routing arrangement for customers who order in trunks and have access for a particular Switched Access Service Arrangement to an end office via two routes: one route via an access tandem and one direct route. The feature allows the customer's originating traffic from the end office to be offered first to the direct trunk group and then overflow to the access tandem group. It is provided in suitably equipped end offices and is available as a nonchargeable option with Feature Groups B, D or CST BSA - Option 1 or 3. It is not available from end offices where Minimum Divergence Access Service is provided, or in designated electromechanical end offices. When the Tandem Signaling Option is provided, a Tandem Switching Provider's service cannot overflow to a Telephone Company access tandem or vice-versa. Customers can obtain a direct end office route with overflow to either a Telephone Company access tandem or to a Tandem Switching Provider's trunk group, but not both.

(O) Multiple Trunk Routing

This option provides a routing arrangement for customers who have access for a particular Switched Access Service Arrangement from a customer designated premises, multiplexing node, or virtual collocation arrangement to an access tandem via two trunk groups. The feature allows the customer's originating traffic to be offered to one trunk group (the high usage group) and then overflow to the second trunk group. The customer shall specify that last trunk CCS desired for the (high usage) trunk group. It is provided in suitably equipped access tandem switches and is available as a nonchargeable option with Feature Groups B, C, D and CST BSA - Option 1, 2 or 3.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(P) International Carrier Option

This option allows for Feature Group D or CST BSA - Option 3 end office or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through presubscription, or 101XXXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing. It is available as a nonchargeable option with Feature Group D or CST BSA - Option 3.

(Z)

(Q) Routing of IntraLATA Calls to the Telephone Company for Use with WATS Access Line Service

This option, which is available with either originating only WATS Access Line (WAL) Service not equipped with the End Office End User Line Service Screening optional feature or with two-way WAL Service, provides that intraLATA calls originating from such services by the end user's dialing valid NXX codes in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, operator assistance (0- and 0+), service codes (211, 611 and 911), directory assistance (411, 555-1212, and NPA+555-1212) will be routed to the facilities of the Telephone Company for completion. Calls placed by the end user's dialing a Feature Group A or CSL BSA seven digit telephone number, or 950-XXXX will be directed to the respective Feature Group A, CSL BSA, Feature Group B or CST BSA - Option 1 Switched Access Service customer. Additionally, this option provides that interLATA calls originating from such services by the end user's dialing 0- will be directed to the Feature Group D or CST BSA - Option 3 Switched Access Service of an operator services provider. It is available as a nonchargeable option with Feature Group D or CST BSA - Option 3.

(TR 1180)

Issued: August 6, 1999

Effective: August 21, 1999

Vice President  
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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(R) Band Advance Arrangement for Use with WATS Access Line Service

This option, which is provided in association with two or more terminating only WATS Access Line Service groups, provides for the automatic overflow of terminating calls to a WATS Access Line Service group, when that group has exceeded its call capacity, to another WATS Access Line Service group with a band designation equal to or greater than that of the overflowing WATS Access Line Service group. This arrangement does not provide for call overflow from a group with a higher band designation to one with a lower one. It is available as a nonchargeable option with Feature Groups C, D and CST BSA - Option 2 and 3.

(S) End Office End User Line Service Screening for Use with WATS Access Line Service

This option provides the ability to verify that an end user has, over an originating only WATS Access Line Service, dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which WATS Access Line Service is provided. It is available as a nonchargeable option with Feature Groups C or D and CST BSA - Option 2 and 3.

(T) Hunt Group Arrangement for Use with WATS Access Line Service

This option, which is also offered as a BSE with CSL BSA, provides the ability to sequentially access one of two or more WATS Access Line Services (e.g., 800 Service access lines) in the terminating direction, when the hunting number of the WATS Access Line Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS Access Line Service is provided. It is available as a nonchargeable option with Feature Groups A, B, C, D, and CST BSA - Option 1, 2 and 3 and as a chargeable BSA with CSL BSA.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(U) Uniform Call Distribution Arrangement for Use with WATS Access Line Service

This option, which is also offered as a BSE with CSL BSA, provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Access Line Services in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Line Service is provided. It is available as a nonchargeable option with Feature Groups A, B, C, D and CST BSA - Option 1, 2 and 3 and as a chargeable BSE with CSL BSA.

(V) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service

This option provides an arrangement for an individual WATS Access Line Service within a multiline hunt or uniform call distribution group that provides access to that WATS Access Line Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Line service is provided. It is available as a nonchargeable option with all Switched Access Service Arrangements.

(W) SWITCHWAY Service Access Capability

This option provides for an end office capability which allows a connection between the customer's premises and a suitably equipped end user premises utilizing end office switching capable of transmitting 56 kbps digital data. SWITCHWAY Service Access Capability is a chargeable option available only with Feature Group D or CST BSA - Option 3 provided to suitably equipped electronic end offices and requires the use of Interface Group 6 or 9. This option used in conjunction with the 64 kbps Clear Channel Capability optional feature allows for origination or termination of 64 kbps digital data calls to an Integrated Services Digital Network (ISDN). This option is not available with services provided under an Expanded Interconnection arrangement.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999



## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(X) Night Transfer

This option, which is offered as a BSE with CSL BSA, provides the customer with the ability to place its lines in an "all members busy" condition by the activation of a key located at their premises through the use of a Dedicated Link. The Dedicated Link will provide for one-way transmission from the Telephone Company end office to the serving wire center of the customer premises, and is provided with transmission capability in the nominal frequency range of 300 to 3000 Hz. When the night transfer key is activated, all incoming calls will be forwarded to a previously designated telephone number. This BSE is provided in appropriately equipped end offices for transfer of calls Intra-office and is available with CSL BSA on an Individual Case Basis.

(Y) Simplified Message Desk Interface (SMDI)

This option, which is offered as a BSE with CSL BSA, provides for the call status information of a call terminating on a CSL BSA multiline hunt group arrangement. Calling number (Intra-office), originally called number, multiline hunt group and terminal identification of the customer's service that handles the call, and the call reason is provided. A Multiple Users option is also provided. This option provides the calling number, called number, the identification of the called multiline hunt group assigned to the customer's end user, and call reason. In addition, the option provides the ability to activate or deactivate a message waiting indicator. The stutter tone or signal light indicator may be activated as long as the service where the message waiting indicator is to be activated is equipped with a stutter tone or signal light message waiting feature. The call status information is transmitted to the customer's premises and the signal to activate or deactivate the message waiting indicator is transmitted from the customer's premises to the Telephone Company end office with the use of a Dedicated Link to the customer's message desk terminal

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(Y) Simplified Message Desk Interface (Cont'd)

equipment. The Dedicated Link with provide for two-way transmission between the Telephone Company end office and the serving wire center of the customer premises, and is provided with transmission capability in the normal frequency range of 300 to 3000 Hz. The customer shall provide the appropriate customer premises equipment to store, display or bring out the transmitted call status information and the equipment to initiate the signal to activate or deactivate the message waiting indicator. This option is only available from an appropriately equipped Telephone Company electronic end offices. The customer shall obtain a Dedicated Link, to each and every Telephone Company end office where SMDI is desired. This BSE is available with CSL BSA with multiline hunt group arrangement on an Individual Case Basis.

(Z) Hot Line

This option, which is offered as a BSE with CSL BSA, allows for an end user's local service to establish a switched connection to the customer's CSL BSA when the end user's telephone goes off-hook. No dialing is required and the call is processed automatically to a CSL BSA.

Hot Line is presubscribed at the time service is ordered. The connection to the customer cannot be changed except through the issuance of a service order. An end user's service equipped with this feature an be used for incoming calls, but cannot initiate outgoing calls except to the customer's CSL BSA. It is available as a BSE with CSL BSA on an Individual Case Basis.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(AA) Warm Line

This option, which is offered as a BSE with CSL BSA, provides for an end user's local service to establish a switched connection after a specified time delay to the customer's CSL BSA. This option provides the customer with a seven digit telephone number associated with a CSL BSA that a Telephone Company's switching system could dial if the end user does not dial a number in a specified length of time. When the end user's local service goes off-hook and dialing begins within the specified time delay period, the call will proceed as dialed. If the end user's dialing has not started before the end of the specified time delay period, the customer's CSL BSA access code is automatically dialed by the Telephone Company's switching system.

Warm Line is presubscribed at the time service is ordered. The connection to the customer cannot be changed except through the issuance of a service order. The timing delay period is specified at the time service is ordered.

This BSE is available with CSL BSA on an Individual Case Basis.

(AB) Three Way Calling

This option, which is offered as a BSE with CSL BSA, provides for a customer to add a third party to an existing call without operator assistance. It is provided in all electronic end offices and is a chargeable BSE available with CSL BSA.

(AC) Queuing with Uniform Call Distribution

This option, which is offered as a BSE with CSL BSA, provides a queuing feature for a Uniform Call Distribution (UCD) Arrangement. This feature permits calls to the UCD arrangement to be completed immediately if the UCD arrangement has an idle terminal and when all terminals in the UCD arrangement are busy, to place the call in a queue to wait its turn to be served. The maximum number of queue

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Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(AC) Queuing with Uniform Call Distribution (Cont'd)

slots is one for every two lines in the UCD arrangement. This option is available from appropriately equipped Telephone Company electronic end offices. It is available as a chargeable BSE with CSL BSA only.

(AD) Announcements with Uniform Call Distribution

This option, which is offered as a BSE with CSL BSA when ordered in conjunction with the queuing feature, provides for a message or tone to be announced to the caller who is in queue. These messages or tones are repeated at customer specified intervals until the call is forwarded for completion. This option is available from appropriately equipped Telephone Company electronic end offices. It is available as a chargeable BSE with CSL BSA only.

(AE) Alternate Routing - Multiple Customer Premises Routing

This option, which is offered as a BSE with CST BSA - Option 1, 2 or 3, provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises, multiplexing node or virtual collocation arrangement until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises or multiplexing node. The customer shall specify the last trunk CCS desired for the high usage group. This chargeable BSE is provided in suitably equipped end office or access tandem switches and is available with CST BSA - Option 1, 2 or 3. It is not available in end offices where Minimum Divergence Access Service is provided, or in designated electromechanical end offices or when the Tandem Signaling Option is provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(AF) Flexible Automatic Number Identification (Flexible ANI)

This option when ordered in conjunction with the ANI optional feature or the ANI BSE provides additional values for the ANI Information Indicator (II) digits associated with various classes of service not available with the standard ANI optional feature or BSE. The Flexible ANI option is provided per end office on a Carrier Identification Code (CIC) basis and is available with Feature Group D service or CST BSA - Option 3 service at suitably equipped end offices as listed in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Technical specifications for Flexible ANI are contained in Technical Reference TR-TSY-000685.

The incremental cost to implement Flexible ANI payphone coding digits will be charged to all Payphone Service Providers on a monthly basis, per line, as set forth in 31.6.2(D) following, to be recovered over 24 months commencing November 1, 1998 and ending October 31, 2000.

A nonrecurring charge will apply as set forth in 31.6.2(D) following except when this option is used to identify calls originating from public telephone access service lines for per call compensation.

In addition, Originating Line Screening (OLS) Confirmation Service is a service that is available to end users or aggregators subscribing to Flexible ANI, where Flexible ANI is offered, for verification of information indicator digits available with Flexible ANI on originating calls; this service is available at no charge from any Telephone Company Service Center either in a verbal or written format.

(AG) Dialed Number Identification Service (DNIS) on 800

This option provides for the outpulsing of up to seven digits of the translated 800 number to be delivered to the customer premises, multiplexing node or virtual collocation arrangement equipment. DNIS on 800 is provided from suitably equipped end offices with reverse battery type supervisory signaling. It is available as a chargeable BSE with terminating CST BSA - Option 4.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.1 Common Switching (Cont'd)(AH) Trunk Group Make Busy (TGMB)

This option which is offered as a BSE with CST BSA - Option 1 or 3 when ordered in conjunction with Alternate Routing - Multiple Customer Premises Routing, provides the customer with the ability to place a "high usage" trunk group into an "all trunks busy" condition through the use of a Dedicated Link activated by a CPE key located at the customer's premises. When the make busy key is activated, all calls terminating on the "high usage" trunk group will be redirected to a previously designated alternate "final" trunk group. As required by network considerations, the alternate trunk group must be directly routed to an end office. If the alternate trunk group becomes fully loaded, a network announcement will be provided. This option is only available on a per trunk group basis. A minimum of two trunk groups is required. If only one trunk is to be busied out, it must be in a trunk group separate from trunks which are not to be busied out. The trunk group will remain in the busy condition until released by the customer.

A Dedicated Link is required for each CST BSA trunk group equipped with the Trunk Group Make Busy BSE. The Dedicated Link will provide for two-way transmission between the customer premises and the Telephone Company end office or access tandem and is provided with transmission capability in the nominal frequency range of 300 to 3000 Hz. Following are the compatible network channel interface (NCI) and network channel (NC) codes for the Dedicated Link:

<u>NC</u>	<u>NCI</u>
LB--	02CC2

This option is provided in suitably equipped end offices or access tandems. It is not available in end offices where Minimum Divergence Access Service is provided or in designated electromechanical end offices. In addition, this option is not available with services provided under an Expanded Interconnection arrangement. It is available as a chargeable BSE with CST BSA - Option 1 or 3.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.2 Transport Termination(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer premises, multiplexing node or virtual collocation arrangement for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B or CST BSA - Option 1, only on a directly trunked basis.

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C, Feature Group D, CST BSA - Option 2 and 3 and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

This option is not available with services provided under an Expanded Interconnection arrangement.

(1) Coin

This arrangement provides for the initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating coin calls requiring operator assistance to the customer's premises. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's Operator Services Systems, rather than in the customer's manual cord boards.

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Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.2 Transport Termination(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin  
(Cont'd)(2) Non-Coin

This arrangement provides for the routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating non-coin calls requiring operator assistance to the customer's premises. Because operator assisted non-coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance non-coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's Operator Services Systems, rather than in the customer's manual cord boards. When so equipped, the ANI feature provides for the forwarding of information digits which identify that the call has originated from a hotel or a motel, and whether room number identification is required, or that special screening is required, e.g., for payphone, dormitory or inmate stations or other screening arrangements agreed to between the customer and the Telephone Company.

(3) Combined Coin and Non-Coin

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating operator assisted coin and non-coin calls requiring operator assistance to the customer's premises. Because operator assisted coin and non-coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

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Issued: April 19, 1999

Effective: May 4, 1999



## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.2 Transport Termination(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin  
(Cont'd)(3) Combined Coin and Non-Coin (Cont'd)

This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's operator services systems, rather than in the customer's manual cord boards. When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for payphone, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature

This option provides the operator functions available in the end office to the customer's operator. These functions are (1) Operator Released, (2) Operator Attached, (3) Coin Collect, (4) Coin Return, and (5) Ringback. It is available with Feature Groups C, D, or CST BSA - Option 2 and 3. It is provided as a trunk type of Transport Termination. This option is not available in combination with the SS7 signaling option.

(D) Operator Trunk - Assist Feature

This option provides the operator functions available in the end office to the customer's operator. These functions are (1) Operator Released and (2) Operator Attached. It is available with Feature Group D or CST BSA - Option 3, and is provided as a trunk type of Transport Termination. This option is not available with SS7 signaling option.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.3 WATS Access Line Service Termination(A) E&M Supervisory Signaling

The E&M Supervisory Signaling optional feature, which is available with four-wire originating only, terminating only and two way WATS Access Lines for use with Feature Groups B, C, D and CST BSA - Option 1, 2 and 3 Switched Access Service, provides for E&M Type 1 or Type 2 Supervisory Signaling in lieu of loop start Supervisory Signaling. When E&M Supervisory Signaling is provided, the need for signaling conversion requires that Telephone Company equipment be placed at the end user's premises. When E&M Supervisory Signaling is provided, Answer Supervision is also provided for originating traffic.

(B) Answer Supervision

The Answer Supervision optional feature, which is available with originating only two-wire WATS Access Lines for use with Feature Groups B, C, D and CST BSA - Option 1, 2 and 3 Switched Access Service served by suitably equipped WATS Serving Offices, provides a signal to customer premises equipment at end user premises that indicates that the called end user has answered, when such indication is provided by the interexchange carrier. When Answer Supervision is provided with a two-wire WATS Access Line, reverse battery type supervisory signaling is also provided.

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.4 SS7 Signaling Option(A) Calling Party Number (CPN)

This feature provides for the automatic transmission of the calling party's ten digit telephone number to the customer's premises for calls originating in the LATA or from the customer's premises for calls terminating in the LATA. The ten digit telephone number consists of the NPA plus the seven digit telephone number, which may or may not be the same number as the calling station's charge number. This feature is provided with the SS7 Signaling Option which is a nonchargeable option of Feature Group D or CST BSA - Option 3.

(B) Charge Number (CN)

This feature provides for the automatic transmission of the ten digit billing number of the calling station number and originating line information. This feature is provided with the SS7 Signaling Option which is a nonchargeable option of Feature Group D or CST BSA - Option 3

The information digits shall only be used for billing and collection, routing, screening, and completion of the originating subscriber's call or transaction or for services directly related to the originating subscriber's call or transaction.

The information provided shall not be reused or resold without first notifying the originating telephone subscriber and obtaining affirmative consent of the subscriber for reuse or resale.

Unless the originating subscriber has given consent for the reuse or resale, any information provided shall not be used for any purpose other than:

- performing the services or transactions that are the subject of the originating subscriber's call;
- ensuring network performance security, and the effectiveness of call delivery;
- compiling, using and disclosing aggregate information; and,

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Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.4 SS7 Signaling Option (Cont'd)(B) Charge Number (CN) (Cont'd)

- complying with applicable laws.

The above restrictions shall not prevent the subscriber to the CN feature from using information acquired from a CN feature, such as the telephone number and billing information or information derived from analysis of the characteristics of calls received through the CN feature, to offer a product or service that is directly related to the products or services previously purchased by a customer of the CN feature subscriber.

(C) Carrier Selection Parameter (CSP)

This feature provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from a presubscribed end user of that customer. This feature is provided with the SS7 Signaling Option which is a nonchargeable option of Feature Group D or CST BSA - Option 3.

(D) Access Transport Parameter (ATP)

This feature provides for the automatic transmission of Called Party Subaddress, Calling Party Subaddress, High Layer Compatibility and Low Layer Compatibility, as described in Technical Publication TR-TSV-000962, with calls originating or terminating to an Integrated Services Digital Network (ISDN). ATP is available with Feature Group D and CST BSA - Option 3 only when ordered with the 64 kbps Clear Channel Capability optional feature. This feature is provided with the SS7 Signaling Option which is a nonchargeable option.

The specific protocols for Calling Party Number, Charge Number, Carrier Selection Parameter and Access Transport Parameter Features are contained in the Technical Publications TR-TSV-000905 and TR-TSV-000962.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.3 Local Switching Optional Features and Basic Service Elements (BSEs)  
(Cont'd)6.3.4 SS7 Signaling Option (Cont'd)(E) Carrier Identification Parameter (CIP)

This feature provides for the transmission of Carrier Identification Code (CIC) information to customers on originating Feature Group D or CST BSA - Option 3 Switched Access Service. CIP is available from suitably equipped end offices and access tandems, when the SS7 Signaling Option is specified. When CIP is provided, the switch will transmit, to the customer premises, the 4 digit CIC of the presubscribed line, or the CIC selected when the end user places a call using 101XXXX dialing. CIP is available on an originating basis as a chargeable optional feature with originating or two-way FGD or CST BSA - Option 3 trunk groups.

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Issued: April 19, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Switched Access Service Arrangement, the Entrance Facility, the Interface Group and whether the service is direct end office routed or routed via an access tandem. The available transmission specifications are set forth in 6.4.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon notification by the customer that the data parameters set forth in 6.4.2(A) or 6.4.2(B) are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the Telephone Company's segment of the transmission path meets the required data parameters.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

The transmission specifications contained in the Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NWT-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits. Transmission specifications for CCSA signaling connections are set forth in the Technical Publication TR-TSV-000905.

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Issued: April 19, 1999

Effective: May 4, 1999

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## ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Service Arrangements. The specific applications in terms of the Switched Access Service Arrangements, Entrance Facilities and Interface Groups with which the Switched Access Service Arrangements Standard Transmission Specifications are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C), 6.2.4(C), 6.2.5(C), 6.2.7(C), 6.2.8(C) and 6.2.9(C) preceding.

(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm 2.0$  dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnC0
51 to 100	34 dBrnC0
101 to 200	37 dBrnC0
201 to 400	40 dBrnC0
401 to 1000	42 dBrnC0

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Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(A) Type A Transmission Specifications (Cont'd)(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnC0.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is +2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBrnC0	35 dBrnC0
51 to 100	33 dBrnC0	37 dBrnC0
101 to 200	35 dBrnC0	40 dBrnC0
201 to 400	37 dBrnC0	43 dBrnC0
401 to 1000	39 dBrnC0	45 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

\* For Feature Groups C and D or CST BSA - Option 2 and 3, only Type B2 will be provided. for Feature Groups A and B, CSL BSA, and CST BSA - Option 1, Type B1 or B2 will be provided as set forth in Technical Reference TR-NWT-000334.

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Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Impedance Balance for FGA, FGB, CSL BSA and CST BSA - Option 1 and Equal Level Echo Path Loss for FGC, FGD and CST BSA - Option 2 and 3 and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Service Arrangement, type of termination, and type of transmission path. They are greater than or equal to the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem		
- Terminated in		
4-Wire trunk	21 dB	14 dB
- Terminated in		
2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
For FGB or CST BSA -		
Option 1 access	8 dB	4 dB
For FGC or CST BSA -		
Option 2 access		
(Effective		
4-Wire trans-		
mission path		
at end office)	16 dB	11 dB
For FGC or CST BSA -		
Option 2 access		
(Effective		
2-Wire trans-		
mission path		
at end office)	13 dB	6 dB

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm 3.0$  dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

\* For Feature Groups C and D or CST BSA - Option 2 and 3, only Type C2 will be provided. for Feature Groups A and B, CSL BSA, and CST BSA - Option 1, Type C1 or C2 will be provided as set forth in Technical Reference TR-NWT-000334.

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss, is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to End Office - Direct	13 dB	6 dB

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Service Arrangements. The specific applications in terms of the Switched Access Service Arrangements with which they are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C), 6.2.4(C), 6.2.5(C), 6.2.7(C), 6.2.8(C) and 6.2.9(C) preceding. Following are descriptions of each.

(A) Data Transmission Parameters Type DA(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:.

604 to 2804 Hz

less than 50 route miles	500 microseconds
--------------------------	------------------

equal to or greater than 50 route miles	900 microseconds
--	------------------

1004 to 2404 Hz

less than 50 route miles	200 microseconds
--------------------------	------------------

equal to or greater than 50 route miles	400 microseconds
--	------------------

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters (Cont'd)(A) Data Transmission Parameters Type DA (Cont'd)(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

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Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters (Cont'd)(B) Data Transmission Parameters Type DB (Cont'd)(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz

less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

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Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in 2. preceding, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

6.5.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(3) preceding.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.2 Design and Traffic Routing of Tandem Switched Trunks

For Tandem Switched Access Service when ordered in busy hour minutes of capacity, the Telephone Company shall design and determine the selection of facilities from the access tandem to the subtending end offices. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment are based on standard engineering methods and available facilities and equipment. If the customer desires directionality different from that determined by the Telephone Company, the Telephone company will work cooperatively with the customer in determining the directionality of the service.

For Tandem Switched Trunks, the customer desired directionality and/or traffic routing of the Switched Access Service between the serving wire center of the customer's premises, multiplexing node or virtual collocation arrangement and the entry switch are specified on the customer's order for service. Additionally, for Feature Group B or CST BSA - Option 1 the customer may order the optional feature Customer Specification of Local Transport Termination.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such provision of information will be determined on an individual case basis.

6.5.4 Trunk Group Measurement Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)

6.5 Obligations of the Telephone Company (Cont'd)

6.5.5 Determination of Number of End Office Transport Terminations (End Office Trunk Ports)

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.6 Design Blocking Probability

The Telephone Company will monitor the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) through (D) following.

- (A) For Feature Group A, Feature Group B, CSL BSA, and CST BSA - Option 1 not used to provision 900 Access Service, and for CST BSA - Option 4 no design blocking criteria apply. For Feature Group B or CST BSA - Option 1 used to provision 900 Access Service, the design blocking objective will be no greater than one percent (.01)\* between the point of termination at the customer's premises, multiplexing node or virtual collocation arrangement and the Telephone Company office at which the customer identification function is performed.
- (B) For Feature Group C or CST BSA - Option 2, the design blocking objective will be no greater than one percent (.01)\* between the point of termination at the customer's premises or multiplexing node and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (C) For Feature Group D or CST BSA - Option 3, the design blocking objective will be no greater than one percent (.01)\* between the point of termination at the customer's premises, multiplexing node or virtual collocation arrangement and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in Special Report SR-EOP-000191, Issue No. 1, Trunk Traffic Engineering Concepts and Applications, will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.

\* In the event of 900 Access Service media stimulated calling, the design blocking objective of no greater than (.01) percent will not be guaranteed.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.6 Design Blocking Probability (Cont'd)

- (D) The Telephone Company will perform routine measurement functions for the capacity ordered, whether ordered in lines, trunks or BHMCS, in accordance with Telephone Company design blocking criteria to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity, lines or trunks) be ordered by the customer when additional paths are required to reduce the measured blocking level to the designed blocking level. For the Feature Group C, D or CST BSA - Option 2 or 3 capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the thresholds listed in the following tables.
- (1) For transmission paths carrying only first routed traffic directly between an end office and customer's premises or multiplexing node without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths <u>Per Trunk Group</u>	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements <u>Per Trunk Group</u>			
	<u>15-20 Measurements</u>	<u>11-14 Measurements</u>	<u>7-10 Measurements</u>	<u>3-6 Measurements</u>
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.6 Design Blocking Probability (Cont'd)

(D) (Cont'd)

- (2) For transmission paths carrying first routed traffic between an end office and customer's premises or multiplexing node via an access tandem, the measured blocking thresholds are as follows:

<u>Number of Transmission Paths Per Trunk Group</u>	<u>Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Per Trunk Group</u>			
	<u>15-20 Measurements</u>	<u>11-14 Measurements</u>	<u>7-10 Measurements</u>	<u>3-6 Measurements</u>
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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